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**BRITISH RESEARCH REPORTS OF GEOGRAPHICAL INTEREST:  
A Bibliography**

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## BRITISH RESEARCH REPORTS OF GEOGRAPHICAL INTEREST:

## A BIBLIOGRAPHY

by

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Over the past decade the practice of issuing unpublished research reports has become an accepted feature in British academic circles. The form, quality and circulation of these reports are varied, some being widely distributed and often accepted as major research contributions, while others are very limited in circulation, often failing to gather the audience they deserve. The desire of some university departments to induce a larger distribution for their reports has been aided, to some extent, by the annual recording in Geographical Analysis of submitted reports lists. Unfortunately, only a few departments are represented in this journal, and, perhaps more significantly, a large body of work undertaken outside university geography departments is not included (an exception being The University of Manchester, Centre for Urban and Regional Research Occasional Papers). This bibliography, therefore, is intended to provide a more comprehensive guide to British research reports of interest to geographers.

No attempt has been made to price reports or to indicate their availability. With the possibility that some reports will be re-issued once out of print, the willingness of some departments to provide Xerox copies, and the existence of inter-library loan facilities, it was felt that any guide on availability might be misleading. Similarly, prices were excluded because of possibilities of fluctuation, though a number of the series listed are available free of charge.

This list was compiled by way of letters to individual departments and organizations, and represents reports issued up to the end of 1973. Because of the method of compilation some relevant reports might have been excluded, it is hoped that their number is small. A further small number of reports have been excluded at the request of their authors, or of the issuing body. These reports are mainly used for teaching purposes, or are intentionally issued in very small numbers for discussion. While the main intention was to produce a bibliography of unpublished reports, a number of those included have been published, these have been included as the form part of a series. Enquiries about published reports can be sent direct to the publisher.

The bibliography is divided into two sections, in the first reports are listed alphabetically, by issuing body, and in the second, addresses are provided for correspondence.

I would like to express my debt to the many people who kindly responded to my letters, their encouragement and interest in this project is appreciated.

This bibliography was formerly issued by The University of Salford, Department of Economics and Geography, as an unpublished report.

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6. Andrews, J. T. (1970) 'Techniques of till fabric analysis'.
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- 'Deglaciation'
- 'Morphometric analysis of maps'
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16. Statham, D. C. (1972) 'Land use change in the moorlands of the North York Moors National Park'.

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2. 'The census of population as a source of information for local authority planning departments' (1969).
3. 'Demographic and social indices for wards in Greater London' (1970) (second edition issued as Research Report 15).

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3. 'Generation of business traffic in central London'.

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7. 'A forecast of 1981 retail turnover and floor space requirements for Greater London' (1970).
8. 'The land use survey, 1966' (1972).
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332. Hetherington, M. F. (1972) 'Forecasts of institutional population'.
335. Skuse, C. M. (1972) 'Thamesmead survey of ingoing tenants'.
338. McDonagh, T. (1972) 'Redbridge trading survey'.
339. Myers, M. D. & M. Harris. (1972) 'Survey of the elderly in an outer London Borough'.
340. Gibbins, C. (1972) 'Interborough migration'.
341. Garton, B. (1973) 'Changes in tenure affecting privately rented housing 1961-66'.
343. Trowbridge, B. & M. Webster. (1972) 'Birth registration in England and Wales, 1965-1971'.
344. Saunders, L. (1972) 'The characteristics and impact of travel generated by Chelsea Football Stadium'.
346. Eldridge, D. A. & S. C. Chakraborti. (1973) 'Thamesmead transportation study'.
347. French, E. & J. Beer. (1972) 'Register of mentally handicapped persons in the London borough of Redbridge'.
350. Powell, H. G. & S. Kingsby. (1972) 'Surveys of personal income in London'.
352. Hardy, A. W. (1972) 'L.T.S. households and trip rates for 1962'.
368. Orchard, A. J., A. C. Sinfield & D. M. Warren. (1972) 'Public transport - transitnet 1970 network specification and calibration'.
369. Trowbridge, B. (1972) '1966 census - basic summaries for Greater London and the Greater London Conurbation'.
370. Kendall, S. (1972) 'Comparative planning data and transportation characteristics of major cities'.



5. Greater London Council, Department of Highways and Transportation (continued)

- 371. Hetherington, M. F. (1973) 'A consideration of a household based projection model for Greater London'.
- 372. Gower, J. E. & J. W. Hoblyn. (1972) 'Origin - destination surveys at some potential bus lane sites'.
- 374. Hetherington, M. F. (1973) 'A forecast for 1981 of the institutional population'.
- 376. Crofts, C. (1972) 'Warehousing and distribution: cash and carry wholesalers'.
- 377. Davies, H. & B. Trowbridge. (1973) 'Reference manual of specific data obtained by the G.L.C. from the 1966 census'.
- 378. Davidson, K. B. (1973) 'Relationships between land use and accessibility'.
- 379. Hasell, B. B., J. Holloway & K.G.C. Johnston. (1973) 'A summary of the results of traffic generation studies'.
- 381. Law, S. (1972) 'Surveys of the use of open spaces'.
- 383. Perry, N. H. (1972) 'Greater London recreation study - final report on pre-tests'.
- 384. Lovett, A. & J. R. Nightingale. (1972) 'Private sector house grants'.
- 385. Townsley, C. H. & J. L. Holloway. (1973) 'Surveys for office traffic generation studies'.
- 386. Mogridge, M.J.H. (1973) 'Car ownership forecasts in London'.
- 388. Keen, K. G. (1972) 'Eastbound traffic on the M4 - analysis of the 1970 origin and destination survey'.
- 389. Morrey, C. R. (1973) '1966 sample census: borough totals: reference tables'.
- 390. Daor, E. & P. J. Hathaway. (1973) 'The influences of bus and rail accessibility on car ownership'.
- 395. Hasell, B. P. (1973) 'Retail store pedestrian traffic survey'.
- 396. Lovett, A. & J. R. Nightingale. (1973) 'Factors affecting the role of the private sector in the supply of new housing'.
- 397. Barton, B. (1973) 'Household space and dwelling tenure distributions'.
- 398. Townsley, C. H. (1973) 'Traffic generation of suburban London offices'.
- 406. Howes, A. P. (1973) 'The G.L.C. (accident statistics) road networks numbering system'.
- 407. Perry, N. H. (1973) 'Greater London recreation study - report on sampling procedures'.
- 411. Perry, N. H. (1973) 'Greater London recreation study - report on fieldwork and coding'.
- 412. Van Vliet, D. (1973) 'Improved algorithm and computer coding for transportation models'.

5. Greater London Council, Department of Highways and Transportation (continued)

- 415. Goodacre, G. P. & M. Hetherington. (1973) '1971 census county report for Greater London selected topics and historical comparison'.
- 416. Coombe, R. D. (1973) 'The inner London bus priority model'.
- 422. Plank, D. (1973) 'The progress and effects of smoke control in London'.

6. Heriot-Watt University, Department of Town and Country Planning

Research Department:

- R. J. Martin (1966) 'Correlates of settlement size'.

7. Huddersfield Polytechnic, Department of Geography and Geology

Reports:

- Brown, B.J.H. (1973) 'A preliminary bibliography of recreation and recreation planning'.

Occasional Papers:

- 1. Barrowclough, R. (1973) 'West Yorkshire; a perspective on local government reorganization'.

8. Location of Offices Bureau

Commissioned Research; (reports of limited availability)

- 1. 'A survey of factors governing the location of offices in the London area' (196?).
- 2. 'Office workers in London' (1965).
- 3. 'Office workers survey - Liverpool' (1966).
- 4. 'Report on a survey of non-movers' (1967).
- 5. 'Communications and the re-location of offices' (1968).
- 6. 'Survey of offices in the central area' (1970).
- 7. 'Office relocation: a report on a series of cost studies of firms which have decentralized from London' (1971).
- 8. 'Demand and supply for office workers and the local impact of office development' (1971).
- 9. 'Office communications survey' (1973).



8. Location of Offices Bureau (continued)

## Research Papers:

1. 'White collar commuters: a second survey' (1967).
2. 'Offices in a regional centre: a study of office location in Leeds' (1968).
3. 'Offices in a regional centre: follow-up studies on infrastructure and linkages' (1969).
4. 'Relocation of office staff: a study of the reactions of office staff decentralised in Ashford' (1969).
5. 'Office development in Croyden: a descriptive and statistical analysis' (1972).
6. 'Office staff on the move: case studies of the reactions of staff moved to Ipswich and Portsmouth' (1971).
7. 'Office decentralisation and its impact on the towns of office reception' (1973).

9. London School of Economics and Political Science, Department of Geography

## Graduate Discussion Papers:

1. O'Sullivan, P. M. 'Transport networks and socio-economic change'.
2. Leigh, R. 'Regression analysis of the journey to work in Central London'.
3. O'Sullivan, P. M. 'Transport networks and the spatial structure of the Irish economy'.
4. O'Sullivan, P. M. 'Regression analysis of rail freight movements in the Republic of Ireland'.
5. Spence, N. A. 'Multifactor uniform rationalisation: a critical review of some techniques with reference to a British example'.
6. Spence, N. A. 'Multifactor uniform regionalisation: a selected bibliographic guide'.
7. Leigh, R. 'Journey to work definitions of the London regions in 1921 and 1951'.
8. Goddard, J. B. 'Multivariate analysis of activity patterns in the City Centre: a London example'.
9. Taylor, P. J. & R. Bordessa. 'Some implications of scientific research methodology in human geography'.
10. Adams, J. 'The linear programming transportation model: an application'.
11. Spence, N. A. 'Multifactor uniform regionalisation: a continuous/non-continuous regionalisation of English countries on the basis of 1961 employment data'.
12. Rahmatullah, Md. & P. M. O'Sullivan. 'The journey to work between local authorities on Merseydide from 1921 to 1966'.

9. London School of Economics and Political Science, Department of Geography (continued)

13. Fielding, J. 'Statistical data and other reference material held by the Atlas of London'.
14. Eyles, J. 'On the concept of motivation in geography'.
15. Eyles, J. 'The inhabitants images of Highgate village (London) - an example of the perception measurement technique'.
16. Scott, A. 'Functional and spatial structure of the central city: a mathematical theory and an empirical test'.
17. Goddard, J. B. 'Functional regions within the city centre: a factor analytic study of taxi flows in Central London'.
18. Denham, C. 'Attitudes toward the environment: analyses of aspects of the environment in a social setting'.
19. Jeffrey, N. 'Gravity, potential and spatial interaction'.
20. Adams, J. 'A review of "Behaviour and Location: Foundations for a Geographic and Dynamic Location Theory" part 1, A. Pred, in Lund Studies in Geography.'
21. Slater, D. 'The modernisation process - spatial aspects and the Latin American case'.
22. Thornes, J. B. 'A queuing theory analogue for scree slope studies'.
23. Wanmali, S. 'The hierarchy of towns in Vidarbha, India, and its significance for regional planning. Part 1 - the hierarchy'.
24. Wanmali, S. 'The hierarchy of towns in Vidharba, India, and its significance for regional planning. Part 2--regional planning'.
25. Sturt, A. 'The relationship between distance and commuting to Central London, 1951-1961'.
26. Adams, J. 'A population map of West Africa'.
27. Adams, J. 'Urbanisation in Ghana and Nigeria: some problems of definition and measurement'.
28. O'Sullivan, P. M. 'An analysis of Irish inter-regional freight flows'.
29. Doherty, J. 'Residential preference for urban environments in the United States'.
30. Andrews, H. F. 'Central place theory and consumers action space'.
31. Anderson, J. 'On general systems theory and the concept of entropy in urban geography'.
32. Williams, T. 'Social gradients in the city: a trend surface analysis of enumeration district data for inner London'.
33. Anderson, J. & J. B. Goddard. 'Some current approaches to human geography in Sweden'.
34. Frost, M. E. 'Distribution costs as a factor in a location of industry policy'.
35. Doherty, J. 'Developments in behavioural geography'.

9. London School of Economics and Political Science, Department of Geography (continued)

36. Anderson, J. 'Time budgets and human geography: notes and references'.
37. Liddle, D. 'Predicting distributional change in urban manufacturing: a simulation experiment'.
38. Gilbert, A. 'The spatial distribution of social variables in Antioquia, Columbia'.
39. King, R. 'Land reform in Italy: a geographic evaluation'.
40. Anderson, J. 'Space-time budgets: potentialities and limitations'.
41. Baker, L., J. Doherty & J. Shepherd. 'Educational performance in the urban environment: an examination of the relationship between education, environment and society'.
42. Rieser, R. 'Urban spatial images: an appraisal of the choice of respondents and measurement situation'.
43. Lee, T. R. 'Socio-economic characteristics in the residential segregation of ethnic and racial groups'.
44. Walker, R. L. 'Environmental influences on socialising behaviour'.
45. Westaway, J. 'Contact potential and the occupational structure of the British Urban Society 1961-1966: an empirical study'.
46. Westaway, J. 'The spatial hierarchy of business organisations and its implication for the British Urban System'.
47. Todd, D. 'The development pole concept and its application to regional analysis: an appraisal of the state of the art'.

Geographical Papers:

1. Clayton, K. M. (ed) (1963) 'Guide to London excursions'.
2. Pahl, R. E. (1965) 'Urbs in Rure: The metropolitan fringe of Hertfordshire'.
3. Starkie, D.N.M. (1967) 'Traffic and Industry: a study of traffic generation and spatial interaction'.
4. O'Sullivan, P. M. (1969) 'Transport Networks and the Irish Economy'.
5. Sant, M. E. (1973) 'The geography of Business Cycles'.

10. London School of Economics and Political Science Greater London Group

Greater London Papers:

1. Judges, A. V. 'Education in Greater London'.
2. Mackenzie, W.J.M. 'Theories on local government'.
3. Robson, W. A. 'The Greater London Boroughs'.
4. Cullingworth, J. B. 'Housing in Greater London'.
5. Donnison, D. V. 'Health, welfare and democracy in Greater London'.
6. Davies, E. 'Transport in Greater London'.
7. Self, P.J.O. 'Town Planning in Greater London'.
8. Sharpe, L. J. 'The metropolis votes'.
9. Robson, W. A. 'The heart of Greater London'.
10. Sharpe, L. J. 'Research in local government'.
11. Peschek & Brand. 'Policies and politics in secondary education'.
12. Rhodes, G. 'Town Planning in South-East England'.
13. Thompson, J. M. 'Some characteristics of motorists in Central London'.
14. Self, P.J.O. 'Metropolitan Planning'.

11. Loughborough University of Technology, Department of Transport Technology

Departmental Reports (unrestricted series):

- TT.6901 Ayers, K. B. 'Determination of flow rates for optimum journey times in towns'.
- TT.7402 Waters, D. M. 'A social survey into annoyance caused by the interaction of aircraft noise and traffic noise'.
- TT.7203 Ollerhead, J. B. 'Estimating the effects of airport noise on the community'.
- TT.7204 Bottom, C. & D. M. Waters. 'A survey into the annoyance caused by aircraft noise and road traffic noise'.
- TT.7209 Armstrong, H. & D. M. Waters. 'A preliminary analysis of an alternative route for heavy vehicles on the A6006 at Rempstone village, Nottinghamshire'.
- TT.7214 Beardsworth, A. & H. Armstrong. 'A survey of student travel habits at Loughborough University and Colleges'.
- TT.7302 Ollerhead, J. B. 'A pilot survey of some effects of aircraft noise in residential communities near London (Heathrow) Airport'.
- TT.7305 Waters, D. M. 'Changes in the noise climate arising from the opening of the M3 motorway in Surrey'.
- TT.7308 Bomwit, R. 'In places of congestion - some observations on the transport of freight'.
- TT.7309 Hawkins, N. 'Passenger comfort limitation on the design of high speed transportation systems'.



12. Manchester Business School, Retail Outlets Research Unit

Research Reports:

1. Thorpe, D. & C. J. Thomas. (1971) 'An atlas and statistical handbook of major suburban shopping centres'.
2. Thorpe, D. & D. A. Kirby. (1971) 'The density of cash and carry wholesaling: a study in comparative market potential'.
3. Thorpe, D. & P. T. Kivell. (1971) 'Woolco Thornaby - a study of an out of town shopping centre'.
4. Thorpe, D. (1971) 'The density of cash and carry wholesaling 1971: 18 months of change - a study of comparative market potential'.
5. Thorpe, D. (1972) 'Food prices: a study of some Northern discount and super stores'.
6. Thorpe, D., P. T. Kivell, D. R. Pratley and M. Andrews. (1972) 'The Hampshire Centre - Bournemouth: Woolco and associated traders, a study of an out of town shopping centre'.
7. Thorpe, D. & P. T. Kivell. (1973) 'An atlas and statistical account of the shopping centres of Greater London.'
8. Thorpe, D., D. A. Kirby & C. H. Thompson. (1973) 'Channels and costs of grocery distribution'.
9. Thorpe, D. & P. McGoldrick. (1973) 'Superstores, discounters and a covered centre: a study of competition in North Manchester'.
10. Redding, G. (1973) 'Supermarket managers and their staff'.
11. Thorpe, D. (1973) 'The density of cash and carry wholesaling in 1973: an industry reaching maturity?'

Research Papers:

1. 'A summary of MBS/IGD figures exchange 1971-1972'.
2. Mandry, G. D. (1973) 'New development in the U.K. grocery trade'.
3. Padberg, D. I. & D. Thorpe. (1973) 'Channels of grocery distribution: in changing stages in evolution, a comparison of U.S.A. and U.K.'

13. Oxford Polytechnic, Department of Town Planning

Oxford Working Papers in Planning Education & Research:

1. Adamson, S. 'The future needs for planning staff and their education'.
2. Faludi, A. 'Collective assessment in project work'.
3. Goodey, B. 'Social planning in new communities'.
4. Faludi, A. 'Sociology in planning education'.
5. Fehl, G. 'Towards a project orientated information support system'.
6. Glasson, J., C. Minay & J. Minett. 'Politics and planning - an educational game'.

13. Oxford Polytechnic, Department of Town Planning (continued)

7. Hendry, J. 'The village study as a live project'.
8. Bruton, M. J. 'An introduction to factor analysis and its application in planning'.
9. Dimitriou, B., A. Faludi, G. McDougall and M. Silvester. 'The systems view of planning'.
10. Barrell, D. 'Cost Benefit analysis in transportation planning'.
11. Gutch, R. 'Goals and the planning process'.
12. Faludi, A. 'The specialist versus generalist-iconflict'.
13. Bruton, M. J., G. Crispin & D. Barrell. 'Project work-friend or foe'.
14. Goodey, B. 'The role of communication and the mass media in British planning'.
15. Needham, B. 'An experiment with landscape evaluation techniques'.
16. Cuddy, M. 'Perspectives in the design and evaluation of educational projects'.
17. Barrell, D. 'Basic discount tables'.

14. Political and Economic Planning

Urban Growth Study Working Papers:

1. Drewett, R. (1967) 'The definition of standard metropolitan areas'.
2. Drewett, R. (1968) 'Sources of land use data in Britain'.
3. Drewett, R. (1969) 'The measurement of changes in land use'.
4. Drewett, R. & C. J. Smith. (1969) 'Variations in curve fitting: some experiments with trend surface analysis'.
6. Drewett, R. & C. J. Smith. (1970) 'Factors affecting land prices: a review of the literature'.

15. Portsmouth Polytechnic, Department of Geography

Occasional Papers:

1. Bateman, M. (1971) 'Some aspects of change in the central areas of towns of West Yorkshire since 1945'.

Reports:

- Ashworth, G. J. & S. J. Wells. (1972) 'Portsmouth parks project'.
- Ashworth, G. J. (1973) 'Butser Hill recreation study'.
- Ashworth, G. J. & J. B. Bradbeer. (1973) 'Southsea study: preliminary report'.
- Bradbeer, J. B. (1973) 'Off-shore oil and gas developments in Britain: a review'.

16. Regional Studies Association

Discussion Papers:

1. Lomas, G. (1971) 'Social planning at a metropolitan scale'.
2. Keith, C. (1973) 'The concept of flexibility in sub-regional studies'.
3. Lemon, A. (1973) 'Planning and the future of small towns in East Anglia'.

Occasional Papers:

2. Williams, G. (1971) 'Economic planning machinery in Wales 1965 - 1968'.
3. Storer, C. & A. Townsend. (1971) 'The Northern Economic Planning Council'.
4. Kavanagh, D. (1971) 'Economic planning in the North West'.

17. Saint David's University College, Department of Geography

Student Project Series:

1. 'Lampeter: a social and economic survey'.

18. University College London, Centre for Urban Studies

Report Series:

1. Glass, R. (1960) 'Newcomers: the West Indians in London' (published by Allen & Unwin).
2. Moser, C. A. & W. Scott. (1961) 'British towns: a statistical study of their social and economic differences'. (Published by Oliver and Boyd).
3. Centre for Urban Studies (ed.). (1964) 'London - aspects of change' (published by MacGibbon and Kee).
4. Ferguson, T., et. al. (1964) 'Public health and urban growth'.
5. Glass, R. and J. Westergaard. (1965) 'Londons housing needs'.

19. University College London, Department of Geography

(a) Occasional Papers:

1. Penning-Rowsell, E. C. 'The morphometric analysis of drainage basins from maps'.
2. Perry, N. H. 'Approaches to the study of process in urban land-use planning'.
3. Taylor, M. J. '"Industrial linkage," "seed-bed" growth and the location of firms'.

19. University College London, Department of Geography (continued)

4. Perry, N. H. 'Recreation planning and countryside conservation: a bibliographical introduction to the German-language literature'.
5. Hollis, G. E. 'The estimation of the hydrologic impact of urbanisation - an example of the use of digital simulation in hydrology'.
6. Morrison, W. I. 'Increasing the objectivity of regional forecasts'.
7. Daniels, P. W. 'Offices in the suburbs'.
8. Brown, R. W. & C. M. Harrison. 'Ecology and ecological methods: their relevance to geographical study'.
9. Saarinen, T. F. & R. U. Cooke. 'Public perception of environment quality in Tucson, Arizona'.
10. Ayode, J. O. 'Rain gauge networks and the areal extension of rainfall records'.
11. MacDonel, G. C. 'Social and geographical mobility: studies in the new towns'.
12. Connell, J. H. 'Urban villages and social networks'.
13. Parker, A. J. 'Employment location/allocation models'.
14. Parsons, G. 'Some comments on the structure and spatial distribution of corporate manufacturing industry in the United Kingdom and the implications for regional growth'.
15. Wood, P. A. 'Economic Planning and the West Midlands'.
16. Robinson, D. J. & T. Thomas. 'New towns in eighteenth century north-west Argentina'.
17. Flowerdew, P. 'A logic of locational description: some illustrations from the context of geographical mobility'.
18. Clout, H. D., G. E. Hollis & R.J.C. Munton. 'A study of public transport in north Norfolk'.
19. Huggett, R. 'The theoretical behaviour of materials within soil landscape systems'.
20. Frenkel, R. E. & C. M. Harrison. 'Comparison of traditional phytosociological and classificatory methods and their uses in ecology'.
21. Carter, F. W. 'Post-war functional and structural changes within the Sofia conurbation'.

## (b) House and Labour Mobility Study Working Papers:

1. Johnson, S. H., J. Salt & P. A. Wood. 'Housing and labour mobility in England and Wales: an introduction'.
2. Hadjifatiou, N. (1971) 'The multivariate classifications of local labour market areas'.
3. Robinson, H. (1971) 'Survey method and questionnaire design'.



19. University College London, Department of Geography (continued)

4. Hadjifatiou, N. (1972) 'The analysis of migration between Standard Metropolitan labour market areas in England and Wales'.
5. Hadjifatiou, N. & H. Robinson. (1972) 'Employment and housing conditions in four selected labour market areas in England and Wales'.
6. Herne, R. (1972) 'Housing and labour mobility: some theoretical considerations'.

20. University College London, School of Environmental Studies

Town Planning Discussion Papers:

1. Scott, A. J. (1968) 'Combinatorial processes, geographic space and planning'.
2. Wilson, A. G. (1968) 'Families of spatial interaction models'.
4. Dear, M. J. (1969) 'Multivariate analysis of urban structure'.
- ? Turner, C. G. (1970) 'Hamburg - a study in multivariate analysis'.
14. Archer, R. W. (1970) 'Private enterprise new-towns in Britain: experience, potential and policy'.
15. Archer, R. W. (1971) 'Regional planning, country planning and the supply of land for new housing in south east England 1960 to 1970'.
16. Simmie, J. M. (1971) 'Ideological and physical planning in Britain'.
17. Archer, R. W. (1971) 'The leasehold system of urban development: decision-making, land tenure and the property market in urban development and land use'.
18. Simmie, J. W. (?) 'Physical planning and social conflict in Victorian Britain and the first half of the Twentieth Century'.
19. Simmie, J. W. (?) 'Conflict and British town planning'.
20. Simmie, J. W. (?) 'Social conflict and spatial inequality'.
21. Simmie, J. W. (1973) 'Power, planning and distributional equity'.

21. University College of Aberystwyth, Department of Geography

Geography memoranda in Agricultural and Applied Meteorology:

1. 'The growing season' (1958).
2. 'Shelter problems in relation to crop and animal husbandry' (1959).
3. 'Hill climates and land usage, with special reference to the highland zones of Britain'.
4. 'Aspects of soil climate'.

21. University College of Aberystwyth, Department of Geography  
(continued)

5. 'Climatic factors and diseases in plants and animals' (1962).
6. 'Climatic factors and agricultural productivity' (1963) (reprinted 1967).
7. 'Major weather hazards affecting British agriculture' (1963).
8. 'Climatic change with special reference to Wales and its agriculture' (1965).
9. 'Early crop production in the British Isles' (1966).
10. 'Frost' (1967) (supplement also available).
11. 'Weather economics' (1968) (published by Pergamon Press in 1969).
12. 'The role of water in agriculture' (1969) (published by Pergamon Press in 1969).
13. 'Research papers in forest meteorology' (1970) (published privately by Cambrian News Ltd. in 1972 - apply direct to J. A. Taylor, Department of Geography, Aberystwyth).
14. 'Weather forecasting for agriculture and industry' (1971) (published by David & Charles in 1972).
15. 'Climatic resources and economic activity' (1972) (to be published by David and Charles in 1974).

A selection of papers from memoranda 1 to 8 was published by Pergamon Press in 1967 under the title of 'Weather and Agriculture' (ed. J. A. Taylor), and is to be reprinted by an American company, Microform, in the near future.

22. University of Aberdeen, Department of Geography

## O'Dell Monographs:

1. Ritchie, W. (1968) 'The coastal geomorphology of North Uist'.
2. Coull, J. R. (1971) 'The crofter fisherman in Norway and Scotland'.
3. Stone, J. C. (1971) 'Locational guide to the Pont, Gordon and Blaeu maps of Scotland'.

22. University of Aberdeen, Department of Geography (continued)

also:

- O'Dell, A. C. & J. MacKintosh. (1963) 'North East of Scotland'.
- Walton, K. (ed.) (1969). 'Royal Grampian Country'.
- Smith, J. S. & K. Walton. (1969) 'The physical environment'.
- Ritchie, W. & A. Mather. (1970) 'The beaches of Lewis and Harris'.
- Ritchie, W. & A. Mather. (1970) 'The beaches of Caithness'.
- Ritchie, W. (1971) 'The beaches of Barra and the Uists'.
- Clapperton, C. M. (ed). 'North East of Scotland: Geographical essays'. (1972)
- Crofts, R. & A. Mather. (1972) 'The beaches of Wester Ross'.
- Mather, A. & R. Crofts. (1972) 'The beaches of western Inverness-shire and northern Argyll'.
- Mather, A. & R. Crofts. (1973) 'The beaches of mainland Argyll'.

23. University of Birmingham, Centre for Urban & Regional Studies

Occasional Papers:

1. Stack, U. (1968) 'The development of a housing association: the experience of the Hanover Housing Association, 1963-1967'.
2. Townroe, P. M. (1968) 'Industrial location and regional economic policy: a selected bibliography'.
3. Burton, T. L. & P. A. Noad. (1968) 'Recreation research methods: a review of recent studies'.
4. (1969) 'The work of the Centre: incorporating the Centre's second annual report 1967-1968'.
5. Ruddy, S. A. (1969) 'Industrial selection schemes: an administrative study'.
6. (1969) 'West Midland group handlist: guide to the papers of the West Midland group on post-war reconstruction and planning'.
7. Cullingworth, J. B. (1970) 'The politics of research'.
8. Karn, V. A. (1970) 'East Kilbride housing survey: a study of housing in a new town'.
9. Karn, V. A. (1970) 'Aycliffe housing survey: a study of housing in a new town'.
10. Karn, V. A. (1970) 'Stevenage housing survey: a study of housing in a new town'.
11. Karn, V. A. (1970) 'Crawley housing survey: a study of housing in a new town'.
12. Gregory, D. (1971) 'Green belts and development control: a case study in the West Midlands'.
13. Edwards, J. R., E. Leigh & T. Marshall. (1971) 'Social patterns in Birmingham: 1966: a reference manual'.

23. University of Birmingham, Centre for Urban & Regional Studies (continued)

14. Welch, R. L. (1971) 'Migration research and migration in Britain: a selected bibliography'.
15. Townroe, P. M. (1971) 'Industrial location decisions: a study in management behaviour'.
16. Ruddy, S. A., B.M.D. Smith & G. E. Cherry. (1971) 'Employment problems in a country town: a study of Bridgnorth, Shropshire'.
17. Goodey, B. (1971) 'Perception of the environment'.
18. Welch, R. L. (1971) 'Migration in Britain: data sources and estimation techniques'.
19. Watson, C. J. (1971) 'Social housing policy in Belgium'.
20. Duncan, T.L.C. (1971) 'Measuring housing quality: a study of methods'.
21. Greve, J. (1971) 'Voluntary housing in Scandinavia'.
22. Smith, B.M.D. (1972) 'The administration of industrial overspill; the institutional framework relevant to industrial overspill in the West Midlands'.
23. Stranz, W. (1972) 'Overspill-anticipation and reality: a case study of Redditch'.
24. Watson, C. J., P. Niner & G. R. Vale. (1973) 'Estimating local housing needs: a case study and discussion of methods'.

Research Memoranda:

5. Spencer, K. M. & G. E. Cherry. (1970) 'Residential rehabilitation: a review of research'.
6. Duncan, T.L.C., R. D. Ballantyne & T. D. Muir. (1971) 'The King's Health Study'.
7. Page, D. (ed.). (1971) 'Housing associations: three surveys'.
8. Smith, B.M.D. & H. K. Parsons. (1971) 'The Pugeley study'.
9. Burton, T. L. (1971) 'Manual of survey documents for use with "Experiments in recreation research"'.
10. Goodey, B., A. W. Duffett, J. R. Gold & D. Spencer. (1971) 'City-scene: an exploration into the image of central Birmingham as seen by area residents'.
11. Goodey, B. (1972) 'Checklist of sources on environmental perception'.
12. Goodey, B., M. E. Horrocks, R. Smith & A. J. Veal. (1972) 'Social development in new communities'.
13. (1972) 'Winchester housing needs study 1971-1972'.
14. Diffey, J. (1972) 'Mobility in Stone'.



23. University of Birmingham, Centre for Urban & Regional Studies (continued)

15. Smith, B.M.D. (1972) 'Employment opportunities in the Bilston area of the Black Country'.
16. Smith, B.M.D. (1972) 'Employment opportunities in the Dudley, Stoubridge and Halesowen parts of the Black Country'.
17. Waterhouse, S. (1972) 'Country parks and the West Midlands'.
18. Smith, B.M.D. (1973) 'Black Country employment 1959-1970'.
19. Parsons, H. K. (1973) 'Recent private developments in older areas of Birmingham'.
20. Donnelly, D., B. Goodey & M. Menzies. (1973) 'Perception related study of local authorities: a pilot study in Sunderland'.
21. Veal, A. J. (1973) 'New communities in the U.K.: a classified bibliography'.

Working Papers: (only available on request to interested researchers)

1. Veal, A. J. (1973) 'Perceptual capacity: a discussion and some research proposals'.
2. Donnelly, D. & M. Menzies. (1973) 'Meaning in imagery: the role of personal construct theory'.
3. Goodey, B. (1973) 'The state of the art and a review of the literature on the perception of environmental quality'.
4. Dunn, M. C. (1973) 'Landscape evaluation techniques: an appraisal and review of the literature'.
5. Veal, A. J. (1973) 'Notes on attraction, preference and choice in recreation'.

24. University of Cambridge, Centre of Latin-American Studies

Working Papers:

1. Greenhill, R. G. 'Antony Gibb and Sons and the organization of the iodine trade, 1870-1940'.
2. Jones, C. A. 'The British investor and London press coverage of the Argentine affairs, 1970-90'.
3. Jones, C. A. 'European bankers and Argentina, 1880-90'.
5. Hallett, D. H. 'Pottery and related handicrafts of San Antonio and San Pedro Colombia, Toledo district, Belize/British Honduras'.
6. Greenhill, R. G. 'British export houses, the Brazilian coffee trade and the question of control, 1850-1914'.

24. University of Cambridge, Centre of Latin-American Studies  
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8. Greenhill, R. G. 'Britain and the cocoa trade in Latin America before 1914'.
10. Abreu, M. 'The Niemeyer mission: an episode of British financial imperialism in Brazil.'
11. Wells, J. 'Distribution of earnings, growth and structure of demand in Brazil, 1959-1971'.

25. University of Cambridge, Department of Architecture

Land Use and Built Form Reports:

1. Bullock, N., et. al. 'A theoretical basis for university planning'.
2. 'Urban systems study: report 1967-1970'.
3. Not yet published.
4. 'The development of a residential model, 1970'.

Land Use and Built Form Working Papers:

1. March, L. 'A Boolean description of built forms'.
2. Trace, M. & L. March. 'The land use performances of selected arrays of built forms'.
3. Hawkes, D. 'Selected papers on the design of office buildings 1890-1930'.
4. Hawkes, D. 'Building bulk legislation: a description and analysis'.
5. March, L. 'A statistical theory of simple spatial distributions'.
6. Echenique, M. 'Models: a discussion'.
7. Echenique, M. 'Urban systems: towards an explorative model'.
8. Echenique, M., et. al. 'A disaggregated model of urban spatial structure: theoretical framework'.
9. Echenique, M., et. al. 'A disaggregated model of urban spatial structure: Caracas'.
10. Hawkes, D. 'Offices: a digest of data'.
11. Echenique, M. & J. Domeyko. 'A model for Santiago metropolitan area'.
12. Echenique, M., et. al. 'Model of a town: Reading'.
13. Echenique, M., et. al. 'Model of a town: Cambridge'.
14. Booth, P., et. al. 'Cambridge: the evaluation of urban structure plans'.
15. Hawkes, D. 'The environmental evaluation of buildings: a mathematical model'.
16. Dickens, A. 'A selected bibliography of land use built form studies'.
17. Tabor, P. 'Traffic in buildings 1: pedestrian circulation'.
18. Tabor, P. 'Traffic in buildings 2: systematic activity allocation'.
19. Tabor, P. 'Traffic in buildings 3: analysis of communication patterns'.
20. Tabor, P. 'Traffic in buildings 4: evaluation of routes'.

25. University of Cambridge, Department of Architecture (continued)

21. Bullock, N. 'An approach to the simulation of activities: a university example'.
22. Dickens, P. 'The location of university facilities: explorations'.
23. Steadman, P. 'The automatic generation of minimum standard house plans'.
24. March, L. 'Urban systems: a generalised distribution function'.
25. Echenique, M., et. al. 'Structural comparison of three generations of new towns'.
26. Echenique, M., et. al. 'Development of a model of a town'.
27. Hawkes, D. & R. Stibbs. 'The environmental evaluation of buildings 2: technical specification of the model'.
28. Hawkes, D. & R. Stibbs. 'The environmental evaluation of buildings 3: a worked example'.
29. Hawkes, D. & R. Stibbs. 'The environmental evaluation of buildings 4: the description and evaluation of rooflights'.
30. Hawkes, D. 'The environmental evaluation of buildings 5: explorations'.
31. Hawkes, D. 'The use of an evaluative model in architectural design: case studies'.
32. Stibbs, R. & P. Tabor. 'The evaluation of circulation in buildings: a mathematical model'.
33. Perraton, J. 'Evaluation as part of the planning process'.
34. Hawkes, D. 'A history of models of the environment in buildings'.
35. Dickens, A. 'Structural and service systems in office buildings: a background review'.
36. Dickens, A. 'A computer simulation of a service system'.
37. Anthony, J. 'Urban systems: data on household income and socio-economic group'.
38. Torres, H. 'Accessibility and residential location'.
39. Lenzi, G. 'Urban systems: a study of a road network 1: data base'.
40. Bullock, N., et. al. 'Surveys of space activities: Reading University'.
41. Bullock, N., et. al. 'Development of an activities model'.
42. Willoughby, T. 'A generative approach to computer aided planning'.
43. Tomlinson, J., et. al. 'A model of daily activity patterns: development and sample results'.
44. Bullock, N., et. al. 'Surveys of day-to-day activities: tabulations and preliminary analysis'.
45. Taylor, E. 'Surveys of day-to-day activities: statistical analysis'.
46. Perraton, J. 'Urban systems: collection and management of data for a complex model'.



25. University of Cambridge, Department of Architecture (continued)

47. Baxter, R. 'Urban systems: the development of a cordon model'.
48. Baxter, R. 'An urban atlas: Reading'.
49. Gray, C. 'Fundamental concepts in computer-aided architecture: storage and data structure'.
50. Perraton, J. 'Goals and objectives in current planning practice'.
51. Anthony, J. 'The effect of income and socio-economic group on housing choice'.
52. Apps, P. 'Theoretical structure for a residential model'.
53. Apps, P. 'Empirical basis for a residential model'.
54. Stibbs, R. 'The prediction of surface luminances in architectural space'.
55. Hawkes, D. 'The development of an environmental model'.
56. March, L. 'Some elementary models of built forms'.
57. Bullock, N. 'Activity modelling: the demand for teaching space'.
58. Anthony, J. & R. Baxter. 'The first stage in disaggregating the residential sub-model'.
59. Apps, P. 'A residential model 1: theory'.
60. Apps, P. 'A residential model 2: prices and price indices for housing services'.
61. Apps, P. 'A residential model 3: demand equations'.
62. Lindsay, W., et. al. 'New towns: a comparative atlas'.
63. Cheesman, R., et. al. 'New towns: the data bank, its construction and organization'.
64. Porzecanski, M. de, et. al. 'New towns: the evolution of planning criteria'.
65. Baxter, R. & I. Williams. 'The second stage in disaggregating the residential sub-model'.
66. Baxter, R. & I. Williams. 'The third stage in disaggregating the residential sub-model'.
67. Perraton, J. 'Plan evaluation: a review of research relevant to the choice of objectives and criteria for plan evaluation'.
68. Perraton, J. 'Plan evaluation: an annotated bibliography'.
69. Stoneman, C. 'Some characteristics of journey to work trips in Reading'.
70. Stoneman, C. 'Some characteristics of journey to service trips in Reading'.
71. Taylor, E., et. al. 'New towns: development of the data bank'.
72. Cooper, P., et. al. 'New towns: analysis of land uses'.



25. University of Cambridge, Department of Architecture (continued)

Land Use and Built Form Technical Notes:

1. Baxter, R. 'Critical path analysis'.
2. Baxter, R. 'Searching geocoded data'.
3. Baxter, R. 'Computers in local authorities'.
4. Baxter, R. & N. Lloyd. 'Computers in land area management'.
5. Stoneman, C. 'An example of interactive computer graphics: planning a road network'.
6. Baxter, R. 'An example of computer graphics for a planning information system'.
7. Lloyd, N. 'Population projection using cohort survival method'.
8. Stoneman, C. 'Shortest routes through a road network'.
9. Stoneman, C. 'Allocating flows to a network structure'.
10. Baxter, R. 'Overlays: polygon relationship to a square grid'.
11. Baxter, R. 'Overlays: polygon coverage of a square grid'.

Land Use and Built Form Technical Notes, Series B:  
Statistical Packages for Urban Research:

1. Baxter, R. 'Linear correlation and regression analysis'.
2. Taylor, E. 'One-way analysis of variance'.
3. Baxter, R. 'Entropy techniques for spatial interaction models'.
4. Baxter, R. 'Polynomial and Fourier curve fitting'.

26. University of Cambridge, Department of Geography

Geographical Articles:

No. 1 (1963):

- Flemming, N. C. 'Uses and abuses of models'.
- Haynes, V. M. 'Vegetation in the geography of Central Iceland'.
- Whyte, A.V.T. 'Patterned ground in the Faroe Islands'.
- Mercer, D. C. 'The karst of the Pindus Mountains'.
- Wright, D. R. 'London's new towns'.
- Langley, J. A. 'An account of the flower industry of the Isles of Scilly'.
- Hay, A. M. 'Breckland - a study in the permanent effects of land use change'.
- Turnock, D. 'Reorganisation and the crofting problem'.

26. University of Cambridge, Department of Geography (continued)

## No. 2 (1963):

- Board, C. 'African inquisition, 1962'.  
 Evans, B. M. 'A Montgomeryshire manorial survey of the sixteenth century'.  
 More, R.M.M. 'Punched cards systems and geographical research'.  
 Self, G. F. 'The economic geology of Norfolk'.  
 Peel, A. P. 'Notes on desert irrigation in Israel'.  
 Kirkby, M. J. 'Sub-aerial scree and cliff'.  
 Evans, I. S. 'Map analysis of slopes'.  
 Ukuru, U. I. 'Ibo markets in Eastern Nigeria'.  
 Welch, B. M. 'Volcanic landforms of the Windward and Leeward Islands'.

## No. 3 (1963):

- Cruikshank, L. 'Italians in Bedford'.  
 Pobson, B. 'Regional patterns of unemployment in Great Britain'.  
 Gossop, E. 'Polythene pipelines and the centralisation and improvement of the dairying industry in Valais, Switzerland'.  
 Wells, S. J. 'Land redistribution in Anwil, Canton of Basel'.  
 Randall, R. E. 'Plant distribution at Shingle Street Suffolk, 1962'.  
 Slaymaker, H. O. 'Simple techniques used in measurement of river channel and hill slope changes'.

## No. 4 (1964):

- Tunnacliffe, N. 'The accuracy of two sample techniques derived from the analysis of land use in Rutland'.  
 Conzen, M. F. 'The hand of God .... and economics'.  
 Norcliffe, G. B. 'Reflections on Kariba'.  
 Dilley, R. S. 'Aspects of early Cumbrian history'.  
 Klasen, J. 'A comparative geography of English marshes'.  
 Washbourn, C. 'Notes on Icelandic geomorphology'.  
 Flemming, N. C. 'Aspects of the Aeolians'.

## No. 5 (1965):

- Keeble, D. E. 'Metropolitan expansion and Southwestern East Anglia'.  
 Kennedy, B. A. 'Some observations on a series of gullies in the Cairngorms'.  
 Keenan, J. H. 'The Saharan revolution'.  
 Lambert, M. A. 'The interaction of transport and industrialisation in the North East Somerset, 1700-1870'.  
 Cruikshank, L. 'Reindeer and railway 68° 20' North'.  
 Rees, P. 'Profitability in coalmining: some tentative remarks'.  
 Williams, R.B.G. 'Geomorphological problems of the Breckland'.

26. University of Cambridge, Department of Geography (continued)

## No. 6 (1966):

- Goudie, A. 'A preliminary survey of the beach rock conglomerates of Arsuz, Southern Turkey'.
- Jack, A.E.M. 'The settlement frontier in the Province of Quebec'.
- Chapman, G. P. 'Politics and economics: the background to the present problems of the U.S.S.R. and the East European Bloc'.
- Jackson, J. E. 'Our mobile earth'.
- O'Riordan, T. 'American experience in water resource development: some pointers for Britain?'
- Williams, M. J. 'Land use in Wotton and its development since 1086'.
- Cope, D. 'Some features of the plateau icecaps of Central Iceland'.
- Rees, P. H. '"Location analysis in human geography": a review'.

## No. 7 (1966):

- Clark, A. 'The machinery of planning - economic geography in action'.
- Morgan, V. 'Aspects of the geography of eighteenth century Scotland from the "Statistical History"'.  
Chubb, R. N. 'Fundamentals of an Icelandic fish factory'.
- Wales, R. J. 'Crawley new town and the Sussex "hinterland map"'.  
Haynes, V. M. 'Some problems of glacial erosion'.
- Rees, P. H. 'Some notes on economic development in Southern Italy'.
- Randall, R. 'The Pontine Marches - settlement, agriculture and natural vegetation'.
- Lincoln, E. A. 'Flood plain zoning as an element in American and British flood protection policy'.
- Dilley, R. S. 'Evidence of agricultural practice and the Cumberland Court Leet'.
- Chapman, G. P. 'Epilogue to the article in the last issue'.

## No. 8 (1967):

- Hopper, P. E. 'Scene of the Winter Olympic Games, 1968'.
- Wales, R. J. 'The lateral moraines of the lower Arolla Glacier'.
- Beeham, B. 'The new road and the tourist industry in the Upper Val d'herens'.
- Goudie, A. S. 'The resurgence of limestone geomorphology'.
- Mather, P. M. 'Aspects of the Quaternary history of West Rossendale'.
- Stapleton, A. K. 'A review of game theory and some applications to geography'.

## 26. University of Cambridge, Department of Geography (continued)

- Askew, S. 'The development of a chemical industry in West Cumberland'.  
Robinson, C. C. 'A geographer and some newspapers'.  
Forham, R. C. 'Geography in a model manner'.  
Evans, I. S. 'The properties of patterns of points, measured by space filling'.

## No. 9 (1967):

- Parry, G.M.W. 'On the ability of historical geography to describe Bolton'.  
Brown, J. A. 'Regional aspects of planning in India'.  
Dilley, R. S. 'Common rights in Cumberland'.  
Piper, D.J.W. & I. S. Evans. 'Computer analysis of maps using a pencil follower'.  
Hancock, D. N. 'The role of the geographer and the leader in development economics'.  
Wales, R. J. 'Population thresholds in South Cambridgeshire'.  
Worth, J.W.B. 'Slough trading estate'.  
Prebble, M. M. 'Recent research in the McMurdo Oasis, Victoria Land, Antarctica'.

## No. 10 (1967):

- Southern, R. 'The Wiggins Teape Group's mills at  
Dartford in Kent - a simple locational study'.  
Ferguson, R. 'Measurement of discharge on supereglacial  
streams'.  
Goudie, A. S. 'Beaufort's petrified beaches of Karamania'.  
Ferguson, R. 'A geomorphologists view of models and  
"models"'.  
Hepple, L. W. 'A review of "Models in Geography".  
Cope, D. 'Network analysis, population and the growth  
of a transport system: a case study of the London  
Underground'.  
Plummer, B. 'Some aspects of primary energy in Australia'.  
Hepple, L. W. 'Epistemology, model-building and historical  
geography'.  
Jones, J.A.A. 'Climatic variability at two stations in  
the Shenandoah National Park, Virginia'.  
Norris, D. 'More's Utopia, a geographical approach'.  
Wales, R. J. 'Population thresholds in South  
Cambridgeshire: a postscript'.

## No. 11 (1968):

- Kennedy, B. A. 'Valley asymmetry in an Arctic environment'.
- Cope, D. R. 'Camps and trading places of Denmark in the Viking period: the significance of their sites and geographical location'.
- Winslow, W. H. 'Dynamics of the deep: a preliminary restatement of the "Drift" theory of certain coal seams'.



- Walmsley, J. 'Gibraltar - a study in urban geography'.  
 Jones, J.A.A. 'The truth about ice-shove or the origins of certain "ice-shove" features on the lakeshores of Central Labrador-Ungava'.

Chapman, G. P. 'The compleat moronne'.

No. 12 (1969):

- Patten, J.H.C. 'Review article: town origins'.  
 Randall, R. E. 'The American chestnut (*Castanea dentata* Borkh): Its original distribution and use in North America, the blight *Endothia parasitica* and the future'.

Burtchett, C. A. 'The size continuum of small settlements in the region of the Central Loire Valley, 1846-1946'.

Sibley, D. & P. B. Corbin. 'Analysis of density-decay functions using high degree polynomials'.

Ferguson, R. I. 'The rank size rule: 1'.

Goudie, A. S. 'Nutrient cycling and weathering'.

No. 13 (1970):

Sibley, D. 'A short note on annular rings'.

Sibley, D. 'A shorter note on map transformations'.

Simmons, G. P. 'Geology and geomorphology in East Greenland'.

Dale, P. 'A note on matrix algebra'.

Ferguson, R. I. 'The rank size rule: 2'.

Catterall, J. 'Laterite: soil or geological formation?'

Goudie, A. S. 'Experimental salt weathering'.

Jones, A. 'Measuring precipitation input for runoff prediction'.

Areola, O. 'Decision problems in the use of aerial photographs for soil mapping and classification on the basis of physiographic units'.

Dale, P. 'Mapping from vertical air photographs'.

No. 14 (1973):

Davis, W.J.B. 'Some problems of operationalizing the behavioural approach to geography'.

Jackson, P. 'Some operational and conceptual problems of graph theory'.

Cope, C. R. 'The potential of gaming simulation in geographic research'.

Martin, R. L. 'The application of information theory to the measurement of spatio-temporal trends in employment concentration'.

Harvey, D. W. 'Revolutionary and counter revolutionary theory in geography and the problem of ghetto formation'.

Carney, J. G. 'Geographical perspectives on American poverty: a review'.

Mattingly, A. 'Some observations on the use of the allometric law in geography'.

Brookes, S. M. & S. C. Wrenn. 'Observations on patterned ground in West Schubert Dal, North East Greenland'.

27. University of Dundee, Department of Geography

Occasional Papers:

1. Small, A. & M. B. Cottam (1972) 'Craig Phadrig'.

28. University of Durham, Centre for Middle Eastern & Islamic Studies

## Occasional Papers:

1. Lawless, R. I. (1972) 'A bibliography of works on Algeria, published in English since 1954'.
2. King, R. & J. H. Stevens. (1973) 'A bibliography of Oman 1900-1970'.
3. Stevens, J. H. & R. King. (1973) 'A bibliography of Saudi Arabia'.

## Monographs:

1. Clarke, J. I. & B. D. Clark. 'Kermansha: an Iranian provincial city'.
2. Bartsch, W. H. & J. Bharier. 'The economy of Iran 1940-1970: a bibliography'.
3. Abdo, A. S. 'Land and air transport in Saudi Arabia'.
4. Costello, V. E. 'The city and region of Kasvin'.

29. University of Durham, Department of Geography

## Research Papers:

1. Hill, R. H. 'A bibliography of Libya'.
2. Dickinson, P. & W. B. Fisher. 'The medieval land surveys of County Durham'.
3. Hacker, M. J. 'Modern Amman: a social survey'.
4. Willimott, S. G. & J. I. Clarke, (eds.). 'Field studies in Libya'.
5. Bowen-Jones, H., J. C. Dewdney & W. B. Fisher. 'Malta: background for development'.
7. Clarke, J. I. 'The Iranian City of Shiraz'.
8. Dewdney, J. C. 'Patterns and problems of regionalisation in the U.S.S.R.'.
9. Blake, G. H. 'Misurata: a market town in Tripolitania'.
10. Clarke, J. I. & B. D. Clark. 'Kermansha: an Iranian provincial city'.
11. King, R. 'The "Questione Meridionale" in Southern Italy'.

## Occasional Papers:

1. Clarke, J. I., K. Orrell & S. A. Taylor. 'Edale: a South Pennine Valley'.
2. Clarke, J. I. & K. Orrell. 'An assessment of some morphometric methods'.
3. Dewdney, J. C., S. A. Taylor & K. G. Wardhaugh. 'The Langdales: a Lakeland parish'.
4. Bowen-Jones, H. 'An atlas of Durham City'.

29. University of Durham, Department of Geography (continued)

5. Dewdney, J. C. & K. G. Wardhaugh. 'The Newlands Valley'.
6. Waltham, J. E., J. Wheway & R. Giles. 'Middle Swaledale'.
8. Thorpe, D. 'The geographer and urban studies'.
9. Beaumont, P. 'A history of glacial research in Northern England'.
10. Stevens, J. H. 'Sites of geomorphological significance in County Durham'.
11. Squires, R. H. 'A computer program for the presentation of pollen data'.
12. John, B. S., G. Clarke, P. J. Copland and D. J. Holme. 'Village studies from the Faroe Islands'.
13. Abbot, A. J., P. K. Boden, and C. R. Whitaker. 'The land system of the Northern Damghan Valley, Ebburz Mountains, Iran'.

## Occasional Publications (new series):

1. Beaumont, P. 'River regimes in Iran'.
2. Grant, P. A. 'The coal mines of Durham City'.

## Special Reports:

1. Bowen-Jones, H. & J. C. Dewdney. (1965) 'Agriculture in Malta: a survey of land use'.
2. Mitchell, P. K. (1958) 'Studies in the agrarian geography of Malta'.
3. Beeley, B. W. (1959) 'The farmer and rural society in Malta'.

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4. Gilchrist, D. W., et. al. (1961) 'Soil survey of the Taugora region, Tripolitania'.
5. Willimot, S. G., et. al. (1963) 'Wali el Hassa survey, Jordan'.
6. Willimot, S. G., et. al. (1964) 'Conservation survey of the Southern Highlands of Jordan'.
7. Willimot, S. G., et. al. (1965) 'Land classification at Wadi Qatrana and Wadi Saltani'.
8. Fisher, W. B., et. al. (1966) 'Soil survey of Wadi Ziglab, Jordan'.
9. Atkinson, K., et. al. (1967) 'Soil conservation survey of Wadi Shueib and Wadi Kufrein, Jordan'.
10. Bowen-Jones, H. & J. H. Stevens. (1966-7) 'Survey of solid and agricultural potential in the Trucial States: a) reconnaissance survey, b) Mileiha development project'.
11. Fisher, W. B., et. al. (1968) 'Soil and conservation survey of the Northern Highlands, Jordan'.
12. Stevens, J. H. (1969) 'The soils and agriculture of the Al Ain Oases, Abu Dhabi'.
13. Stevens, J. H. (1972) 'The soils of the Tendaho plantations, Lower Awash Valley, Ethiopia'. (No. 13 available only by permission of the author).

30. University of East Anglia, School of Environmental Sciences

## Reports:

- Tarrant, J. R. 'Computers in geography 1970'.  
 Tarrant, J. R. 'Computers in the environmental sciences 1971'.  
 Baird, W. W. & J. R. Tarrant. 'Hedgerow destruction in Norfolk 1946-1970'.

31. University of Edinburgh, Department of Geography

## Tourism and Recreation Research Unit - Research Reports:

1. Duffield, B. S., M. L. Owen & J. T. Coppock (eds.). (1970) 'A geographical appraisal of the countryside recreation in Lanarkshire'.
2. Duffield, B. S. & M. L. Owen. (1971) 'The Pentland Hills: a research study'.
3. Duffield, B. S., M. L. Owen & J. T. Coppock (eds.). (1971) 'A geographical appraisal of countryside recreation in the Edinburgh area'.
4. Owen, M. L. & B. S. Duffield. (1971) 'The touring caravan in Scotland'.
5. Owen, M. L. & B. S. Duffield. (1972) 'The touring caravan in Scotland: supply-demand report'.
6. Duffield, B. S. & M. L. Owen. (1972) 'Survey of summer visitors to Edinburgh 1971'.
7. Owen, M. L. & B. S. Duffield. (1972) 'Summer holiday traffic'.
8. Duffield, B. S. & M. L. Owen. (1972) 'Forestry policy: recreation and amenity considerations'.
9. Owen, M. L. & B. S. Duffield. (1973) 'Self-catering accommodation in North-East Scotland'.
10. Duffield, B. S. (1973) 'Outdoor recreational traffic patterns in the Edinburgh area'.

## Research Reports:

1. Furley, P. A. (ed.). (1968) 'Expedition to British Honduras'.
2. (1970) 'Impact of tourist developments in Upper Speyside'.
3. Carlyle, W. J. (1972) 'Some geographical aspects of the movement of Scottish store sheep'.
4. Furley, P. A. (ed.). (1972) 'Expedition to Central America 1970: General report'.



32. University of Edinburgh, Department of Urban Design and Regional Planning, Planning Research Unit

Reports:

1. 'Lothians regional survey and plan' (1966) (published by H.M.S.O.).
2. 'The Central Borders: a plan for expansion' (1968) (published by H.M.S.O.).
3. 'Coleraine, Portrush, Portstewart, area plans' (1968) (published by H.M.S.O.).
4. 'Grangemouth/Falkirk regional survey and plan' (1968) (published by H.M.S.O.).
5. 'Planning for disabled people in the urban environment' (1969) (published by Central Council for the Disabled).
6. 'Threshold analysis: theoretical background, evaluation and development' (1972) (published by Architectural Press).
7. 'Threshold analysis manual' (1973) (published by H.M.S.O.).

33. University of Glasgow, Department of Social & Economic Research

Urban & Regional Studies Discussion Papers:

4. Kasper, H. (1972) 'Measuring the labour market costs of housing dislocation'.
5. Cameron, G. (1972) 'Intraurban location and new plant'.
6. Farmer, E. & R. Smith. (1972) 'Glasgow overspill, 1943-71'.
7. Lever, W. (1972) 'A markov approach to the optimal size of cities in England and Wales'.
8. Cameron, G. (1973) 'The relevance to the U.S. of British and French regional population strategies'.
9. Henderson, R. (1973) 'Industrial overspill from Glasgow 1958-68'.
- 10-12. (1973) 'Papers presented to a symposium on the problems of West Central Scotland'.

34. University of Glasgow, Institute of Latin-American Studies

Occasional Papers:

1. Sandilands, R. J. (1971) 'The modernization of the agricultural sector and rural-urban migration in Columbia'.
2. Ellis, P. B. (1971) 'Changes in agriculture and settlement in coastal Chiapas, southern Mexico.'
3. Lambert, J. D. (1971) 'Planning for administrative reform in Latin America: the Argentina and Brazilian cases'.

34. University of Glasgow, Institute of Latin-American Studies  
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4. Carr, B. (1971) 'The peculiarities of the Mexican North, 1880-1928'.
5. Howkins, D. W. (1973) 'A Quechua legend of Peru: YAKU RUNA or "RIVER MAN"'.  
1
6. Loveday, B. W. (1973) 'Sanchez Cerro and Peruvian politics 1930-1933'.
7. Pyne, P. (1973) 'The role of Congress in the Ecuadorian political system and its contribution to the over-throw of President Velasco Ibarra in 1961'.

35. University of Hull, Department of Geography

(a) Miscellaneous Series in Geography:

1. Symes, D. G. (1865) 'The population resources of the Connemara Gaeltacht: an analysis of the employment potential'.
2. Symes, D. G. (1965) 'The population resources of the Gaeltacht: an analysis of the employment potential, 2 County Donegal'.
3. Lewis, P. & G. E. Skipworth. (1966) 'Some geographical and statistical aspects of the distribution of votes in recent general elections'.
4. Elliston, G. (1967) 'The marine fishing industry of Sarawak'.
5. Wilkinson, H. R. (1966) 'University of Hull Department of Geography: Postgraduate training and opportunities for research'.
7. Kay, G. (1967) 'Social aspects of village regrouping in Zambia'.
8. Symes, D. G. & E. G. Thomas. (1968) 'The Yorkshire and Humberside planning region: an atlas of population changes, 1951-1966'.
9. Wilkinson, H. R., P. Hall & R. K. Page. (1969) 'Regional planning in Britain - Proceedings of the Northern Universities Geographical Societies Conference'.
10. Wilkinson, H. R., R. N. Davidson & M. K. Francis. (1970) 'Kingston upon Hull and Haltemprice, social area analysis, 1966: Part 1 - Atlas'.
11. Flenley, J. R. (ed.). (1971) 'The water relations of Malesian forests - transactions of the first Aberdeen - Hull symposium on Malesian ecology'.
12. Kay, G. (1972) 'The distribution and density of African population in Rhodesia'.
13. Ashton, P. & M. Ashton, (eds.). (1972) 'The quaternary era in Malesia - transactions of the second Aberdeen-Hull symposium on Malesian ecology'.

35. University of Hull, Department of Geography (continued)

## (b) Occasional Papers in Geography:

1. Wilkinson, H. R. 'Man and the natural environment'.
2. Kay, G. 'Changing patterns of settlement and land use in the Eastern Province of Northern Rhodesia'.
3. Appleton, J. H. 'A morphological approach to the geography of transport'.
4. Watts, D. 'Man's influence on the vegetation of Barbados, 1627-1800'.
5. Pitty, A. F. 'An approach to the study of karst water, illustrated by results from Poole's Cavern, Buxton'.
6. Dwyer, D. J. & D. O. Lai. 'The small industrial unit in Hong Kong'.
7. Jones, P. N. 'The segregation of immigrant communities in the City of Birmingham, 1961'.
8. Tarrant, J. R. 'Retail distribution in Eastern Yorkshire in relation to central place theory: a methodological approach'.
9. Pitty, A. F. 'A scheme for hillslope analysis: I. initial considerations and calculations'.
10. Aylwin, E. & R. C. Ward. 'Development and utilisation of water supplies in the East Riding of Yorkshire'.
11. Lewin, J. 'The Yorkshire Wolds: a study in geomorphology'.
12. Porteous, J. D. 'The company town of Goole: an essay in urban genesis'.
13. Lewis, P. 'A numerical approach to the location of industry exemplified by the papermaking industry in England and Wales'.
14. Jones, P. N. 'Colliery settlement in the South Wales coalfield, 1850-1926'.
15. Jackson, J. C. 'Chinese in the West Borneo goldfields: a study in cultural geography'.
16. Groves, P. A. 'Towards a typology of intra-metropolitan manufacturing location: a case study of the San Francisco Bay area'.
17. Pitty, A. F. 'A scheme for hillslope analysis: II. indices and tests for differences'.
18. Ward, R. C. 'Small watershed experiments: an appraisal of concepts and research developments'.
19. Forster, C. A. 'Court housing in Kingston upon Hull: an example of cyclic processes in the morphological development of nineteenth Century bye-law housing'.
20. Farrington, J. H. 'Morphological studies of English canals'.

36. University of Lancaster, Department of Environmental Sciences

## Report:

Oldfield, F. & A. W. Phillips. (1969) 'The Lytham St. Annes foreshore'.

37. University of Leeds, Department of Geography

Working Papers:

1. Wilson, A. G. 'A family of spatial interaction models, and associated developments'.
2. Birch, J. W. 'Farming systems as resource systems'.
3. Wilson, A. G. 'Some recent developments in microeconomic approaches to modelling household behaviour, with special reference to spatio-temporal organisation'.
4. Wilson, A. G. 'Analysis and planning problems: uses and prospects'.
5. Smith, R. T. 'Soil, environment and man: a review of some topics relating to man's perception and exploitation of soils'.
6. Wilson, A. G. 'Multi-regional models of population structure and some implications for a dynamic residential location model'.
7. Wilson, A. G. 'Understanding the city of the future'.
8. Rees, P. H. 'How to make the Rogers version of the demographic model operational for an English or Welsh county in about one hundred easy steps'.
9. Wilson, A. G. 'Behavioural inputs to aggregative urban systems models'.
10. Preston, D. A. 'Post-revolutionary rural-urban interaction on the Bolivian Altiplano'.
11. Wilson, A. G. 'Theoretical geography - some speculations'.
12. Wilson, A. G. 'How planning can respond to new issues'.
13. Senior, M. L. 'A review of urban ecological and spatial interaction approaches to residential location modelling'.
14. Senior, M. L. & A. G. Wilson. 'Student accommodation in Leeds'.
15. Rees, P. H. 'Measuring and modelling the distribution of social groups within cities over time'.
16. Wales, M. L. & D. A. Preston. 'Peasants and smugglers: frontier trade between Peru and Bolivia'.
17. Preston, D. A. 'Internal domination: small towns, the countryside, and development'.
18. Preston, D. A. 'Agriculture in a highland desert: the Central Altiplano of Bolivia'.
19. Wilson, A. G. 'Towards system models for water resource management'.
20. Wilson, A. G. 'Further developments of entropy maximising transport models'.
21. Wilson, A. G. 'Principles for building a general urban and regional model'.



37. University of Leeds, Department of Geography (continued)

22. Senior, M. L. & A. G. Wilson. 'Dissaggregated residential location models: some tests and further theoretical developments'.
23. Rees, P. H. & A. G. Wilson. 'Accounts and models for spatial demographic analysis 1: aggregate populations'.
24. Tinsley, H. M. & R. T. Smith. 'Ecological investigations at a British camp in the Yorkshire Pennines'.
25. Preston, D. A. 'Rural-urban transformations in Bolivia: new towns in a new system'.
26. Birch, J. W. 'Geography and resource management'.
27. Rees, P. H. 'A revised notation for spatial demographic accounts and models'.
28. Wilson, A. G. 'Travel demand forecasting: achievements and problems'.
29. Mackett, R. L. 'The estimation of employment in small areas within the city'.
30. Mackett, R. L. 'Shopping in the city - the application of an intra-urban shopping model to Leeds'.
31. Smith, A. P. & G. Mountcastle. 'A computer version of a generalised Rogers' model 1: data preparation and model test for an English or Welsh county'.
32. Preston, D. A. 'Farmers and towns: rural-urban interaction in highland Bolivia'.
33. Smith, A. P. & G. Mountcastle. 'A computer version of a spatial demographic model 2: a users manual'.
34. Kirkby, M. 'Landslides and weathering rates'.
35. Wilson, A. G. 'Learning and control mechanisms for urban modelling'.
36. Goodman, P. 'Trip generation - a review of the category analysis and regression models'.
37. Not yet available.
38. Southworth, F. 'Recent developments in trip distribution and modal split transportation models - a review'.
39. Not yet available.
40. McDonald, A. 'Some views on the effect of peat drainage'.
41. Whitehead, P. 'Public facilities: some geographical and economic considerations'.
42. Wilson, A. G. & M. L. Senior. 'Some relationships between entropy maximising models, mathematical programming models, and their duals'.
43. Senior, M. L. & A. G. Wilson. 'Explorations and syntheses of linear programming and spatial interaction models of residential location'.
44. McDonald, A. 'A note of some problems in short term sedimentation measurement in the North Esk Reservoir, Midlothian'.
45. McDonald, A. 'The administrative structure controlling water resources in Britain and some European Economic Community countries'.

37. University of Leeds, Department of Geography (continued)

- 46. Wilson, A. G. 'Some methods for building dynamic models in urban and regional analysis'.
- 47. King, J. 'The social, economic and location characteristics of ethnic birth in Leeds C.B. in 1971'.

38. University of Leeds, Institute for Transport Studies

## Working Papers:

- 1. Gwilliam, K. M., C. A. O'Flaherty & A. G. Wilson. 'Proposed research programme in transportation planning'.
- 2. Wilson, A. G. 'Further developments on entropy maximising transport models'.
- 3. Wilson, A. G. 'Principles for building a general urban and regional model'.
- 4. Gwilliam, K. M. 'Economic evaluation of urban transport projects: the state of are'.
- 5. Rees, F. J. & K. M. Gwilliam. 'Urban transport and road design - classifications of environmental problems and indications of the most recent research'.
- 6. Maher, M. J. & G. Copley. 'Pedestrianisation: a review'.
- 7. Leake, G. R. & J. E. Gray. 'Industrial trip generation: a review'.
- 8. Gray, J. E. & G. R. Leake. 'Industrial trip generation: pilot survey results and future programme of work'.
- 9. Goodman, P. R. 'Trip generation - a review of the category analysis and regression models'.
- 10. Southworth, F. 'Recent developments in trip distribution and modal split transportation models: a review'.
- 13. Dodgson, J. S. 'The external affects and secondary benefits in road investment appraisal'.
- 14. Peaker, A. 'The design of impact studies for the transport sector'.
- 15. Dodgson, J. S. 'Local employment statistics: West Yorkshire'.
- 16. Judge, E. J. & C. G. Bamford. 'Transpennine traffic survey, 1970'.
- 17. Bamford, C. G. 'Transpennine bus survey in 1970'.
- 18. Bamford, C. G. & E. J. Judge. 'West Riding travel survey 1970'.
- 19. Bamford, C. G. 'Transpennine screenline survey, 1971'.
- 20. Copley, D. M. 'Journey time survey, 1971'.
- 21. Copley, D. M. & E. J. Judge. 'Building a network for West Riding and Lancashire'.
- 22. Bamford, C. G. & E. J. Judge. 'Transpennine screenline survey 1972'.

38. University of Leeds, Institute for Transport Studies  
(continued)

23. Dalvi, M. Q. & K. Martin. 'Urban transport evaluation procedures'.
24. Copley, G. & M. J. Maher. 'Pedestrian movements study - report on pilot study'.
25. Brennan, M. J. 'A broad outline of models for estimating school trips at institutional level'.
26. Dalvi, M. Q. 'Distributional aspects of investment in urban transport'.

39. University of Liverpool, Centre for Latin-American Studies

Monographs:

- Roberts, B. & S. Lowder. 'Urban population growth and migration in Latin America: two case studies'.
- Ward, J. S. 'Yellow fever in Latin America: a geographical study'.

40. University of Liverpool, Department of Geography

African Population Mobility Working Papers:

1. Gould, W.T.S. & R. M. Prothero. 'Space and time dimensions in the study of population mobility in Tropical Africa'.
2. Goddard, A. D. 'Population movements and land shortages in the Sokoto close-settled zones'.
3. Gould, W.T.S. 'Movements of school children and provision of secondary schools in Uganda'.
4. Goddard, A. D. & F. I. Masser. 'An approach to the analysis of interregional migration'.
5. Gould, W.T.S. 'Problems of secondary school in African cities: The example of Addis Ababa, Ethiopia'.
6. Prothero, R. M. 'Population mobility: a restraint on public health'.
7. Gould, W.T.S. & A. D. Goddard. 'Census data and interregional migration in tropical Africa'.
8. Gould, W.T.S. & F. I. Masser. 'Internal migration data in tropical African censuses: a critical evaluation of recent developments in terms of user requirements'.

Research Reports:

1. Learmonth, A.T.A. 'Sample villages in Mysore State India'.
2. Gregory, S. 'Rainfall over Sierra Leone'.
3. Simpson, E. S. (ed.). 'Agricultural Geography, I.G.U. Symposium Volume I'.



40. University of Liverpool, Department of Geography (continued)

4. Smith, K. (1966) 'The hydrology of Widderdale'.
5. Simpson, E. S. (ed). 'Agricultural Geography, I.G.U. Symposium Volume 2'.
6. Pullan, R. A. (1970) 'The soils, soil landscapes and geomorphological evolution of a metasedimentary area in Northern Nigeria'.
7. Driscoll, E. M. (1970) 'The irrigation settlements of the lower Burdekin, Queensland, Australia'.
8. Phillips, A. W. & W. Rollinson. (1971) 'Coastal changes on Walney Island, North Lancashire'.
9. Mitchell, B. (1971) 'Water in England and Wales, supply transfer and management'.

Social Geography of Nineteenth Century Merseyside  
Working Papers:

1. Lawton, R. & C. G. Pooley. (1972) 'The social geography of nineteenth century Merseyside - an introductory report'.
2. Lawton, R. & C. G. Pooley (eds.). (1973) 'Methodological problems in the statistical analysis of small area data'.

41. University of Manchester, Centre for Urban & Regional Research

Occasional Papers:

1. Lewis, J. P. 'Mis-used techniques in planning: (i) Linear programming'.
2. Lewis, J. P. 'Mis-used techniques in planning: (ii) cost-benefit analysis'.
3. Bristow, M. R. & A. L. Traill. 'Car parking in Central Manchester'.
4. Lewis, J. P. 'Mis-used techniques in planning: (iii) mathematical models'.
5. Lewis, J. P. 'The value of time: an approach to a new theory, and its use in cost-benefit studies'.
6. Lewis, J. P. 'Profitability in a shopping model'.
7. Smith, P. N. 'A survey of some existing urban planning models'.
8. Lewis, J. P. & D.J.E. Kilsby. 'A central area redevelopment simulation model'.
9. Cohen, G. 'Dynamic programming for planners'.
10. Jones, C. A. 'Markov chains and their uses in urban and regional research'.
11. Lewis, J. P. 'Mis-used techniques in planning: (iv) the forecasts of Roskill'.
12. Kilsby, D.J.E. & J. S. Tulip & M. R. Bristow. 'The attractiveness of shopping centres'.
13. Kilsby, D.J.E. 'A spatial extension of the central area redevelopment model'.



41. University of Manchester, Centre for Urban & Regional Research  
(continued)

14. Smith, P. N. 'A review of route choice methodology and algorithms'.
15. Smith, P. N. 'An appraisal of the possibilities of integrating partial urban simulation models'.
16. Stephens, V. C. 'An analysis of some shopping trip data for Greater Manchester'.
17. Smith, P. N. 'A framework for a comprehensive urban model'.
18. White, C. J., J. P. Lewis, D.J.E. Kilsby & D. G. Edwards. 'A further development of the central area redevelopment simulation model'.
19. Couch, I. R. 'Perception and residential preferences in South Manchester'.
20. Smith, P. N. 'A supplementary survey of some existing urban planning models'.
21. Lovett, A. L., A. L. Traill & J. P. Lewis. 'Demand for houses in Greater Sheffield, 1970-1973'.
22. Bristow, M. R. & J.F.A. Bostock. 'Report on the travel patterns of staff and out-patients at the Wythenshawe hospital complex'.
23. McLoughlin, J. B. & J. N. Webster. 'Development control in Britain'.
24. Bristow, M. R. & F. Rodriguez. 'A cost-benefit study of the Manchester-to-Buxton Railway'.
25. Farthing, S. M. 'Housing in England and Wales, 1971: as revealed by the 1971 census of population. No. 1 Dorset'.

42. University of Newcastle-upon-Tyne, Department of Geography

Research Series:

1. House, J.W. 'North Eastern England: population movements and the landscape since the early 19th century'.
2. Anson, W. W. & J. I. Sharp. 'Surface and rock-head relief features in the northern part of the Northumberland coalfield'.
3. Fullerton, B. 'The pattern of service industries in North-East England'.
4. House, J. W. 'Economic growth in North-East England'.
5. Jackson, I. J. 'Pressure types and precipitation over North-East England'.
6. Galliers, J. A. 'The geomorphology of Holy Island, Northumberland'.
7. Newton, M. 'The sand and gravel industry in North-East England'.
8. Sharp, J. I. 'Atlas maps and the real world'.
9. Lavery, P. 'Patterns of holidaymaking in the Northern Region'.
10. Davies, R. L. 'Patterns and profiles of consumer behaviour'.

42. University of Newcastle-upon-Tyne, Department of Geography  
(continued)

Migration and Mobility Series:

1. House, J. W. 'Rural North-East England 1951-1961'.
2. House, J. W. & E. M. Knight. 'Migrants of North-East England 1951-1961, character, age and sex'.
3. House, J. W. & E. M. Knight. 'People on the move: the south Tyne in the sixties'.
4. House, J. W. & K. G. Willis. 'Northern region and nation: a short migration atlas 1960-61'.
5. House, J. W. & E. M. Knight. 'Pit closures and the community'.
6. Knight, E. M. 'Men leaving mining, West Cumberland 1966-67'.
7. House, J. W., A. D. Thomas & K. G. Willis. 'Where did the school leavers go?'
8. House, J. W., I. M. Thubron, S. M. Ruddy & C. E. Storer. 'Mobility of the Northern Business Manager'.
9. House, J. W. & A. D. Thomas. 'Northern graduates of '64: braindrain or brainbank?'
10. Fullerton, B. & M. Bullock. 'Accessibility to employment in the Northern Region'.
11. Willis, K. G. 'Geographical and labour mobility: electrical, engineering, steel and woodworkers on Tyneside'.

Seminar Papers:

1. Taylor, P. J. 'Grouping techniques in regional taxonomy'.
2. Willis, K. G. 'Vector analysis and the representation of movement: the case of migration'.
3. Heal, D. W. 'Geography, general systems theory and common sense'.
4. Sorensen, A. D. 'The potential concept and the measurement of spatial association - an application'.
5. Galliers, J. A. 'The geographer role in resource mapping in developing countries'.
6. Ramdin, T. 'Mauritius: problems associated with the production and export of cane sugar'.
7. Taylor, J. L. & K. R. Carter. 'Some instructional dimensions of urban gaming - simulation'.
8. Bordessa, R. 'Perception research in geography: an appraisal and contribution to urban perception'.
9. Randall, H. A., A. D. Sorensen, P. J. Taylor & K. G. Willis. 'A library of computer programmes for use in geography: the case of migration'.
10. El Farra, M. A. 'Some aspects of Kuwait population'.
11. Openshaw, S. 'Canonical correlates of social structure and urban building fabric'.

42. University of Newcastle-upon-Tyne, Department of Geography  
(continued)

12. Taylor, P. J. 'Distance transformations and distance decay functions'.
13. Gleave, D. J. 'Trends in journey to work in Newcastle: 1921-1966'.
14. Conzen, M.C.G. 'The cope and content of geography'.
15. Davies, R. L. 'The urban retailing system of Coventry'.
16. Williams, G. 'Problems of regional developments in Mid Wales'.
17. Openshaw, S. 'An algorithm for a continuous cluster analysis'.
18. Cuming, J. S. 'Rockhead relief of south east Northumberland'.
19. Hanna, L. W. 'Physical aspects of resource assessment with special reference to Uganda'.
20. Gleave, D. J. 'A shift share analysis of the industrial economy, 1961-66'.
21. Knowles, R. D. 'An empirical model of geographical variations in the level of car ownership in Norway'.
22. Gudgin, G. & P. J. Taylor. 'Electoral bias and the distribution of party voters'.

43. University of Nottingham, Department of Geography

Ideas in Geography:

1. 'France: a rank correlation project'.
2. 'Set theory and geography'.
3. 'Quantitative data for the USSR and the RSFSR'.
4. 'Notes on the towns of Latin America'.
6. 'An introduction to factor analysis with a geomorphological example from Northern England'.
7. 'Geographical games'.
8. 'An introduction to factor analysis with the United States as an example'.
9. 'Analysis of variance'.
10. 'Topology and geography'.
11. 'Notes on the measurement of shape in geography'.
12. 'An introduction to trend surface analysis'.
13. 'The morphometric analysis of drainage basins, illustrated by some examples of third order basins in Uganda'.
14. 'Introduction to matrices and matrix algebra with geographical examples'.
15. 'Mexico and Peru: data, findings and link up'.
18. 'Notes on perception in geography'.
22. 'Places in "Pravda" (sample of 35 front pages)'.
23. 'The diffusion business'.
25. 'Notes on distance and location'.

43. University of Nottingham, Department of Geography (continued)

27. 'Population projections with a computer'.
29. 'Factor analysis and clustering in Switzerland'.
30. 'Linear programming in a geographical situation'.
31. 'What is political geography?'
32. 'Notes on regional geography'.
33. 'Examples of geometrical aspects of political units'.
34. 'Data for the USSR around 1970'.
35. 'Data for Chile (part of text in Spanish)'.
36. 'Exercise and games for political geography'.
37. 'Location exercise and games'.
38. 'Postwar data for 92 Italian provinces'.
39. 'Machiavellie - a simple five player battle game'.
40. 'Three on-line computer games of geographical interest'.
41. 'Notes on the functions and designing of geographical games'.
42. 'Regional differences in development levels in selected countries'.
43. 'Elementary FORTRAN programming for geographers'.
44. 'FORTRAN programme of interest to geographers'.
45. 'A Mexican view of Mexico and the world'.
46. 'Mexico 1970'.
47. 'Election campaign game in Dumfriesshire'.
48. 'Shopping and search - two geographical games'.

44. University of Oxford, School of Geography

## Research Papers:

1. Champion, A. G. 'Variation in urban densities between towns of England and Wales'.
2. Campbell, J. A. 'Some sources of the humanism of H. J. Fleure'.
3. Busteed, M. A. 'Northern Ireland: geographical aspects of a crisis'.
4. Goudie, A. S. 'The concept of post-glacial progressive desiccation'.
5. Walton, J. R. 'A study in the diffusion of agricultural machinery in the nineteenth century'.
6. Patten, J. 'Rural-urban migration in pre-industrial England'.
7. Ogden, P. E. 'Marriage patterns and population mobility: a study in rural France'.
8. Gottman, J. 'The evolution of urban centrality: orientations for research'.



45. University of Reading, Department of Geography

## Geographical Papers:

1. Eyles, J. (1971) 'Space, territory and conflict'.
2. Boulding, J. (1971) 'Selected annotated bibliography of literature on outdoor recreation'.
3. Foot, D.H.S. & D. Starkie. (1971) 'Ashford-Hastings railway line cost benefit appraisal'.
4. Drewett, R., P. Hall & J. Oram. (1970) 'Location of a University'.
5. Linde, R. van der. (1971) 'Applications of quantitative analysis and mathematical models in agricultural geographical research'.
6. Schiller, R. K. (1970) 'The growth of shops and offices in the outer metropolitan area 1963-1968'.
7. Silk, J. (1971) 'Search behaviour: general characteristics and review of literature in the behavioural sciences'.
8. Green, D. H. (1971) 'The impact of the local authority in the attraction of industry'.
9. Hardy, J. R. (1972) 'A fortran program for wave refraction diagrams and coastal energy balance'.
10. Goodall, B. (1971) 'Conservation and the economic appraisal of priorities in resource use'.
11. Bird, H. (1971) 'An introduction to the study of the significance of externalities in urban and regional planning'.
12. Batty, M. (1971) 'Dynamic simulation of an urban system'.
13. Saunders, L. (1972) 'A value of time for air travellers on the land feeder journey to an airport'.
14. Mackie, S. (1972) 'The calibration of spatial interaction models'.
15. Hurrell, S. (1972) 'The use of normative statements in plan-making'.
16. Blaikie, P. M. (1972) 'Diffusion and the family planning programme of India, theory and practice'.
17. Batty, M. (1972) 'An educational computer programme for land-use allocation modelling'.
18. Batty, M. (1972) 'A probability model of the housing market based on quasi-classical considerations'.
19. Silk, J. (1972) 'Transportation information systems'.
20. Hall, P. (1972) 'Forecasting the quality of life in Urban Europe'.
21. Constable, D. (1973) 'Urban growth models: a critical assessment of the Forrester model'.

45. University of Reading, Department of Geography (continued)

Urban Systems Research Unit Working Papers:

1. Cripps, E. (1969) 'An introduction to the study of information for urban and regional planning'.
3. Batty, M. (1970) 'Spatial theory and information systems'.
4. Cater, E. (1970) 'Information needs of planners, a survey'.
5. Cheshire, A. (1970) 'Statistics for planning: 1, the census of population'.
6. Cheshire, A. (1970) 'Statistics for planning: 2, view of government statistics'.
7. Cripps, E. (1970) 'A comparative study of information systems for urban and regional planning'.
8. Turner, C. (1970) 'The development of an activity allocation model for the Bristol subregion'.
9. Cater, E. (1971) 'The empirical development of a disaggregated residential location model: some preliminary results'.
10. Mackie, S. & M. Batty. (1971) 'The calibration of gravity entropy and related models of spatial interaction'.

46. University of Salford, Department of Economics and Geography

Research Notes:

- No. 1 (1969): Labasse, J. 'The concept of regional metropolis and its application in France'.  
                     Law, C. M. 'Some problems in the development of regional planning in the North West'.
- No. 2 (1970): Lomas, P. K. 'The South African gold mining industry: its recent past, and future prospects'.  
                     Rudd, M. 'Exploiting the advantages of the small company'.  
                     Hanlon, J. P. 'Theoretical considerations concerning the value of travel time'.

47. University of Sheffield, Department of Town and Regional Planning

Reports:

1. Choguill, C. (1972) 'The spatial demand for air travel and airport systems planning'.
2. Fulcher, M. (1973) 'Employment estimates: a guide to the techniques for town and regional planning'.
4. Choguill, C. (1973) 'A computer program for the analysis of planning applications'.
5. Fulcher, M. (1973) 'British industrial estates: an annotated bibliography'.

48. University of Southampton, Department of Geography

Southampton Research Series in Geography:

No. 1:

- Small, R. J. 'The role of spring in the formation of chalk escarpment valleys'.  
Thompson, I. B. 'A review of problems of economic and urban development in the northern coalfield of France'.

No. 2:

- Clark, M. J. 'The form of chalk slopes'.  
Blake, G. H. 'The making of Otsem: a study of rural planning in Israel'.

No. 3:

- May, V. J. 'A preliminary study of recent coastal changes and sea defences in South-East England'.  
Birch, B. P. 'Farmstead settlement in the North American Corn Belt'.

No. 4:

- Clark, M. J., J. Lewin, & R. J. Small. 'The sarsen stones of the Marlborough Downs and their geomorphological interpretation'.  
Witherick, M. E. 'The medieval boroughs of Cornwall - an alternative view of their origins'.

No. 5:

- Fermor, J. H. 'The hydrology of part of East Hampshire'.  
Smith, R. V. 'Industrial development in Puerto Rico: locational factors and distributional patterns'.

No. 6:

- Birch, B. P. 'The environment and settlement of the prairie woodland transition belt - a case study of Edwards County, Illinois'.  
Pinder, D. A. 'The spatial development of the Luton hat industry in the early Twentieth Century'.

No. 7:

- Taylor, A. H. 'The place of geography in election study'.  
Woodruffe, B. J. 'War years to Common Market: a study of agricultural land use in Worcestershire'.

49. University of Sussex, Institute of Development Studies

## Working Papers:

- Clay, E. (1970) 'Notes on the water resources programme in Kosi region'.
- Biggs, S. D. (1971) 'Outline of region and subsector models: design for data collection and analysis'.
- Biggs, S. D. (1971) 'Farm mechanization survey: purpose, design and schedules for tractors, tubewells and thrashers'.

## Technical Papers:

- Biggs, S. D. (1971) 'Field report and future programme, schedules for district block and village, households and crop production surveys'.
- Biggs, S. D. (1970) 'Preliminary analysis of district agricultural statistics'.
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